

BELIAKOV, V.A.; BOYADZHIYEV, A.; VIRYASOV, N.M.; MAL'TSEV, V.M.

[Mechanism of particle production and interaction in the carbon nucleus] Mekhanizm obrazovaniia i vzaimodeistvii chastits v iadre ugleroda. Dubna, Ob"edinennyi in-t iadernykh issl. 1963. 23 p. (MIRA 17:7)

BELYAKOV, V.A.; BOYADZHIYEV, A.V.; VAN YUN-CHAN; VEKSLER, V.I.; VIRYASOV,
N.M.; KHIM KHI IN; Kladnitskaya, Ye.N.; Kuznetsov, A.A.;
MAL'TSEV, V.M.; NGUYEN DIN TY; PENEV, V.N.; SOLOV'YEV, M.I.

Production of $\Lambda(\Sigma^0)$ -hyperons and K^0 -mesons in interactions
between 7 GeV. π^- -mesons and carbon. Zhur. eksp. i teor. fiz.
46 no.5:1586-1597 My '64. (MIRA 17:6)

1. Ob'yedinennyy institut yadernykh issledovaniy.

BELYAKOV, V.A.; BOYA'DZHIEV, A.V.; VIRYASOV, N.M.; MAL'TSEV, V.M.

Formation and interaction mechanism of particles in a
carbon nucleus. Acta physica Pol 25 no.6:781-796 Ja '64.

1. Joint Institute of Nuclear Research, Laboratory of High-
Energy Computer Center, Laboratory of Theoretical Physics,
Dubna, U.S.S.R.

BELIAKOV, V.A.; VAN YUN-CHAN [Wang Yung-ch'ang]; VEKSLER, V.I.; VIRYASOV, N.M.; VRANA, I.; DU YUAN'-TSAY [Tu Yuan-ts'ai]; KIM KHI IN; KLODNITSKAYA, Ye.N.; KUZNETSOV, A.A.; MIKHUL, E.; NGUYEN DIN TY; PATERA, I.; PENEV, V.N.; SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.; KHOVMOKL', T.; CHEN LIN-YAN'; MIKHUL, A. [Mihul, A.]

Study of Λ -hyperon and K^0 -meson production in $\bar{N}\pi$ -p-interactions at an energy of 7 - 8 Billion Electron Volts. Zhur. eksp. i teor. fiz. 44 no.2:431-443 F '63. (MIRA 16:7)

1. Ob'yedinennyi institut yadernykh issledovaniy. 2. Sotrudnik Instituta atomnoy fiziki v Bukhareste (for Mikhul).

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AUTHOR: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. M.; Kladnitskaya, Ye. N.---
Kladnitskaya, E. N.; Kopylov, G. I.; Penev, V. N.; Solov'yev, M. I.---Solovyev, M. I.

ORG: Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy)

TITLE: Baryon resonances in π -p-interactions at 7.5 GEV with formation of strange particles

SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 338-350

TOPIC TAGS: baryon, meson, particle interaction, strange particle, hyperon, particle cross section

ABSTRACT: The formation and properties of resonances decaying into Λ -hyperons and π -mesons were studied. Data are given on the formation cross sections for Y^+ (1385) and Y^+ (1660)-hyperons in π -p-interactions at 7.5 GEV/c. The properties and formation characteristics of Y^+ (1385)-hyperons and their decay products were investigated. The maximum in the mass spectrum $M_{\Lambda\pi^+\pi^-}$ at the value 1770 MEV was discussed. The authors thank Professor M. I. Podgoretskiy and Professor I. V. Chuvilo for their interest in the work and their discussions; A. Mikhul, Nugen Din Ty, A. A. Kuznetsov, Ye. S. Sokolova, Du Yuan'-tsay, Van Yun-chan and Kim Khi In for taking part in the first stage of the work. Further thanks is rendered N. F. Markov and V. Ye. Komolov, co-workers at the Computer Center, for carrying out the calculations and the group

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AUTHOR: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. M.; Kladnitskaya, Ye. N.---
Kladnitskaya, E. N.; Kopylov, G. I.; Penev, V. N.; Solov'yev, M. I.---Solovyev, M. I.

ORG: Joint Institute of Nuclear Research (Ob'yedinenyy institut yadernykh issledovaniy)

TITLE: Meson resonances in π -p-interactions at 7.5 GEV with formation of strange particles 19 50 34

SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 351-365 B

TOPIC TAGS: π meson, strange particle, particle interaction, K meson, mass spectrum

ABSTRACT: Resonances decaying into K^* (\bar{K}^* , K^+) and π -mesons are investigated. Cross sections are given for the formation of K^* (888) and k (730) π -mesons in π -p-interactions at 7.5 GEV/c in events with KK pairs, and the contribution (in %) of k^* , K^{*+} -mesons in events with Λ K^+ pairs is evaluated. Properties and formation characteristics of K^{*+} -mesons are described. Mass-spectra of the $K2$ π and $K3$ π systems are investigated. The possibility of the formation of a new resonance $U = K^* + \pi^+ + \pi^- + \pi^0$ with mass 1660 MEV is indicated. An attempt is made to determine its quantum numbers. Proofs are given for the production of a resonance with mass 1050 MEV, decaying into three π -mesons ($\pi^+ \pi^- \pi^0$), which can be identified as the A_1 -meson. 2

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The authors thank Professor M. I. Podgoretskiy and Professor I. V. Chuvilo for their interest in the work and for the discussions; A. Mikhul, Ngen Din Ty, A. A. Kuznetsov, Ye. S. Sokolova, Du Yuan'-tsay, Van Yun-chan and Kim Khi In for taking part in the first stage of the work. Further thanks is rendered to the co-workers at the Computer Center, N. F. Markov and V. Ye. Komolov, for carrying-out the calculations and the group of laboratory workers for the measurements. The authors also thank A. V. Nikitin, V. G. Grishin, E. G. Bubelev, and I. Kurelar for discussing the various problems of this work. Orig. art. has: 13 figures and 3 tables. [Based on authors' Eng. abst.] [JPRS]

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BEIYAKOV, V.A.; VEKSLER, V.I.; VIRYASOV, N.M.; KLADNITSKAYA, Ye.N.;
KOPYLOV, G.I.; MIKHUL, A. [Michul, A.]; PENEV, V.N.; SOKOLOVA,
Ye.S.; SOLOV'YEV, M.I.

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particles in η -p-interactions at 7.5 GeV/c. Zhur. eksp. i teor.
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1. Ob"yedinennyy institut yadernykh issledovaniy. 2. So-
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Bukharest (for Mikhul). (MIRA 17:10)

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35 no.6:17-18 Ja '57.

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Avt.transp.
(MIRA 10:7)

EXCERPTA MEDICA Feb 14 Vol.10/4 Radiology Apr 56

667. VIRZHIKOVSKAYA M.F. *Motoric disturbances in duodenum in cases of cholecystitis with stones (Russian text) KLIN. MED. (Mosk.) 1955, 33/6 (53-63) illus. 8

X-ray examinations in 38 cases of cholecystitis with stones and in 12 cases without stones are reported. The diagnosis was surgically verified in all cases. A ring-shaped cramp was always present in the duodenojejunal curve, sometimes also in the region of Vater's papilla. Peristalsis in the vertical region of the duodenum was segmental, but in the lower horizontal part there were coarse oscillatory movements while antiperistaltic waves were often seen in the bulbous duodenum. The duodenum thus is not a passive, but an active organ.

Hirvonen - Helsinki

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 BAGHINA, V., prof.; HADIRCA-BREAZA, I.; IVANESCU-TIRGOVISTE, C.;
 NEGREA, M.; SPIRIDON, I.; SZABO-POIESTI, T.; GRIGORE-POIESTI, I.,
 prof.; BAZACOV, Gh., prof.; PAUNESCU, Al.; MORARU, I.; SAHAGIA, C.;
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V. VISAČKI, Veterinary Station (Veterinarska stanica) Mramorac

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Belgrade, Veterinarski Glasnik, Vol 16, No 12, 1962: pp 1273-1276.

Abstract: Of 8 egg batches indiscriminately accepted from many farms and totaling 7,184 eggs, only 4,915 hatched and only 1,519 of the chicks survived the first 3 weeks. Salmonella pullorum confirmed. Regulatory preventive measures are outlined and advocated. Two tables, 4 references: Yugoslav, German, HD, Czech.

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(TUBERCULOSIS, OCULAR, pathol.

traum. relapse-inducing factors)

(WOUNDS & INJURIES, compl.

ocular tuberc., relapse-inducing factors of eye & other inj.)

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Piperazine as anthelmintic in parascariasis, oxyuriasis and
strongylosis in horses. Stud. cercet. inframicrobiol., Bucur. 6
no.1-2:295-300 Jan-June 55.

(ASCARIASIS

parascariasis in horses, ther., piperazine)

(OXYURIASIS

in horses, ther., piperazine)

(NEMATODE INFECTIONS

in horses, ther., piperazine)

(HELMINTH INFECTIONS

in horses, ther., piperazine)

(PIPERAZINES, ther. use

helminth & nematode infect. in horses)

(HORSES, dis.

helminth & nematode infect., ther., piperazine)

11. "Reactions and Accidents of Civil Aircraft During War Conditions" H. GILL, p. 139-150.
12. "Reactions of Landing Pilots in Form and Disorientation" S. BLOOMBERG, pp. 152-157.
13. "Reactions Induced in the Human Body by the Control of the Visual Representation of Space" (Unpublished) L. KATZ, pp. 157-159.
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VISACKI, V.
SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees: /not given/

Affiliation: Veterinary Station (Veterinarska stanica), Mramorak

Source: Belgrade, Veterinarski glasnik, No 8, 1961, pp 677-679.

Data: "Contribution to the Understanding of Epizootiology of
Fowl Cholera."

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VISACKI, V.

COPIES (in copy); Given Names

Country: Yugoslavia

Academic Degrees: /not given/

Affiliation: Veterinary Station (Veterinarska stanica), Mramorak

Source: Belgrade, Veterinarski glasnik, No 9, 1961, pp 773-774.

Data: "A Case of Aquariasis /?/ in Fowl."

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32:97-165 '62.

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Investigation of the semi-invariants of the statistical-geometric analogy for thin elastic shells of isotropic and orthotropic materials. Acta techn Hung 28 no.1/2:199-207 '60. (EBAI 9:7)

1. Institut de Mecanica Aplicata "Traian Vuia", Bucuresti.
(Elasticity)

VISARTON, V.; STANESCU, C.

Extension of static-geometric analogy to thin elastic shells with anisotropy of material. p.329

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Bucuresti, Rumania
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Uncl.

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AUTHORS: Visarion, V., Stenescu, Kr. (Bukharest)

TITLE: Investigation of the quasilinear static-geometric analogy for thin elastic shells

PERIODICAL: Prikladnaya matematika i mekhanika, v. 25, no. 1, 1961, 68-75

TEXT: The authors apply the methods developed in previous papers to

orthotropic shells and find the factor $\frac{2h^2 \sqrt{E_\alpha E_\beta}}{\sqrt{3(1-\mu_\alpha \mu_\beta)}}$, by means of which

systems of equilibrium equations and continuity equations may be united to a single complex system. Besides, the Hooke equations may in this way be reduced to a system of three linear equations without differential between the complex stresses. The previous papers mentioned are by A. L. Gol'denveyzer dealing with isotropic shells, and by V. V. Novozhilov dealing with the static-geometric analogy. In the first part

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Investigation of the quasiinvariants ...

of the paper the quasiinvariants are dealt with. According to static-geometric analogy, the stresses, moments, stress functions, displacements, and deformation components, which enter into the homogeneous equations of the theory of thin shells, may be divided into two groups: Here, one element of the second group containing displacements and deformations corresponds to each element of the first, containing stresses, moments, and stress functions. The ratio (element e of the first group / element e^* of the second group) has the dimension of a force. The complex elements then have the form $S_e = e + i\{e\}e^*$. As quasiinvariant, a complex element (1.1) is described, to which the same element multiplied by a constant factor corresponds in static-geometric analogy. The authors then investigate the conditions at which S_e is a quasiinvariant.

The conditions of quasiinvariance read $S_e = K S_e^*$ or also $e + i\{e\}e^* = K[e^* + i\{e^*\}e]$. Herefrom, one obtains by comparing coefficients $1 = K i\{e^*\}$, $i\{e\} = K$, and further $\{e^*\} = -1/\{e\}$ (1.5). $\{e\}$ has the dimension of a force: $|\{e\}| = |F|$. The most general expression composed of all constants entering the static-geometric

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analogy has the form (1.7).

$$\xi(e) = F_1^m F_2^m D_1^p D_2^p \left(\frac{A_{12}}{A_{11}}\right)^q \left(\frac{A_{21}}{A_{11}}\right)^q \left(2 \frac{A_{12}}{A_{11}}\right)^r \left(2 \frac{A_{21}}{A_{11}}\right)^r \left(2 \frac{A_{11}}{A_{11}}\right)^s \left(2 \frac{A_{21}}{A_{11}}\right)^s \times \\ \times \left(4 \frac{A_{12}}{A_{11}}\right)^t \left(\frac{a_{12}}{a_{11}}\right)^u \left(\frac{a_{21}}{a_{11}}\right)^v \left(-\frac{a_{12}}{a_{11}}\right)^w \left(-\frac{a_{21}}{a_{11}}\right)^w \left(-\frac{a_{11}}{a_{11}}\right)^z \left(-\frac{a_{21}}{a_{11}}\right)^z \left(\frac{a_{22}}{a_{11}}\right)^w \quad (1.7)$$

Here, $\xi(e)$ is assumed to be independent of the selected element, and then $m=m'$, $p=p'$, $q=q'$, $r=r'$, $s=s'$, $u=u'$, $v=v'$, $z=z'$ must hold; herefrom follows (1.8).

Отсюда

$$\xi = (F_1 F_2)^m (D_1 D_2)^p \left(\frac{A_{12} A_{21}}{A_{11}^2}\right)^q \left(4 \frac{A_{12} A_{21}}{A_{11}^2}\right)^r \left(4 \frac{A_{11} A_{22}}{A_{11}^2}\right)^s \left(4 \frac{A_{22}}{A_{11}}\right)^t \times \\ \times \left(\frac{a_{12} a_{21}}{a_{11}^2}\right)^u \left(\frac{a_{12} a_{22}}{a_{11}^2}\right)^v \left(\frac{a_{21} a_{22}}{a_{11}^2}\right)^z \left(\frac{a_{22}}{a_{11}}\right)^w \quad (1.8)$$

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Further, we write ξ for $\xi(e)$. In the case of (1.5) there follows $q = -u$, $r = -v$, $s = -z$, $t = -w$, and herefrom (1.9).

$$\xi = \left(\frac{F_1 F_2}{D_1 D_2}\right)^{1/2} \left(\frac{A_{12} A_{21}}{a_{11} a_{21}} \frac{a_{11}^2}{A_{22}^2}\right)^q \left(4 \frac{A_{12} A_{22}}{a_{12} a_{22}} \frac{a_{11}^2}{A_{22}^2}\right)^r \left(4 \frac{A_{21} A_{22}}{a_{21} a_{22}} \frac{a_{11}^2}{A_{22}^2}\right)^s \left(4 \frac{A_{22}}{a_{22}} \frac{a_{11}}{A_{22}}\right)^t \quad (1.9)$$

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q, r, s, t here remain arbitrary. If ξ is defined in such a manner that $S_e = e + i\xi e'$ is a quasiinvariant, then also $S_e' = e + i\xi^\lambda e'$ is a quasiinvariant, if λ is dimensionless. In static-geometric analogy it corresponds to the condition $\lambda \leftrightarrow 1/\lambda$. Therefore, the indefinite factors may be omitted in (1.9), and it then follows that

$\xi = (F_1 F_2 / D_1 D_2)^{1/4}$ (1.11). With the notation used in the appendix there

follows $\xi = 2 h^2 \sqrt[4]{\frac{1}{9} \frac{A_{11} A_{22}}{a_{11} a_{22}}}$ (1.12), and if the technical constants are

used: $\xi = 2 h^2 \sqrt[4]{\frac{E_\alpha E_\beta}{3 \Delta_1}} \sqrt[4]{(1 - \eta_\alpha^\nu)(1 - \eta_\beta^\nu)}$ (1.13), where

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$$\Delta_1 = \begin{vmatrix} 1 & -\mu_\alpha & \eta_\alpha \\ -\mu_\beta & 1 & \eta_\beta \\ \nu_\alpha & \nu_\beta & 1 \end{vmatrix} \quad (1.14). \quad \text{Above all, one obtains for}$$

$$\text{isotropic and orthotropic shells } \xi = \frac{2h^2 E}{\sqrt{3(1-\mu^2)}} \quad \text{and } \xi = \frac{2h^2 \sqrt{E_\alpha E_\beta}}{\sqrt{3(1-\mu_\alpha \mu_\beta)}}$$

respectively. The groups of the relations corresponding to one another in static-geometric analogy may be united into quasiinvariant complex systems, where the newly introduced functions turn out to be quasi-invariants. Thus, the systems of the equations of stress equilibrium and the equations for the continuity of deformations are in this way united to one single system, where the new unknown quantities are complex:

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$$\begin{aligned} \frac{\partial}{\partial \alpha} (BT_1) + \frac{\partial A}{\partial \beta} S_1 - \frac{\partial}{\partial \beta} (AS_1) - \frac{\partial B}{\partial \alpha} T_2 - AB \left(\frac{N_1}{R_1} - \frac{N_2}{R_{12}} \right) + ABX &= 0 \\ \frac{\partial}{\partial \alpha} (BS_1) - \frac{\partial A}{\partial \beta} T_1 + \frac{\partial}{\partial \beta} (AT_2) - \frac{\partial B}{\partial \alpha} S_2 - AB \left(\frac{N_2}{R_2} - \frac{N_1}{R_{12}} \right) + ABY &= 0 \\ AB \left(\frac{T_1}{R_1} + \frac{T_2}{R_2} + \frac{S_2 - S_1}{R_{12}} \right) + \frac{\partial}{\partial \alpha} (BN_1) + \frac{\partial}{\partial \beta} (AN_2) + ABZ &= 0 \\ \frac{\partial}{\partial \alpha} (BH_1) + \frac{\partial A}{\partial \beta} G_1 - \frac{\partial}{\partial \beta} (AG_1) - \frac{\partial B}{\partial \alpha} H_2 + ABN_2 &= 0 \\ \frac{\partial}{\partial \alpha} (BG_1) - \frac{\partial A}{\partial \beta} H_1 + \frac{\partial}{\partial \beta} (AH_2) - \frac{\partial B}{\partial \alpha} G_2 - ABN_1 &= 0 \\ S_1 + S_2 + \frac{H_1}{R_1} + \frac{H_2}{R_2} + \frac{G_2 - G_1}{R_{12}} &= 0 \end{aligned} \quad (2.1)$$

Здесь

$$\begin{aligned} T_1 &= T_1 + i\xi\tau_1, & S_1 &= S_1 + i\xi\tau^{(2)}, & N_1 &= N_1 - i\xi\tau_1, \\ T_2 &= T_2 + i\xi\tau_1, & S_2 &= S_2 + i\xi\tau^{(1)}, & N_2 &= N_2 + i\xi\tau_1, \\ G_1 &= G_1 + i\xi\tau_2, & H_1 &= H_1 - i\xi\omega^{(2)}, \\ G_2 &= G_2 + i\xi\tau_1, & H_2 &= H_2 - i\xi\omega^{(1)} \end{aligned} \quad (2.2)$$

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Investigation of the quasiinvariants ...

In addition, there is $\bar{H}_1 + \bar{H}_2$. Also the relations between the stresses and stress functions on the one hand, and the relations between the deformations and displacements on the other hand, may be combined to one single system between complex stresses and complex stress functions:

$$\begin{aligned} T_1 &= \frac{1}{B} \frac{\partial}{\partial \beta} \left(\frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_1} - \frac{a}{R_{11}} \right) + \frac{1}{AB} \frac{\partial B}{\partial \alpha} \left(\frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_1} - \frac{b}{R_{11}} \right) - \frac{n}{R_{11}} \\ T_2 &= \frac{1}{A} \frac{\partial}{\partial \alpha} \left(\frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_1} - \frac{b}{R_{11}} \right) + \frac{1}{AB} \frac{\partial A}{\partial \beta} \left(\frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_1} - \frac{a}{R_{11}} \right) + \frac{n}{R_{11}} \\ S_1 &= -\frac{1}{B} \frac{\partial}{\partial \beta} \left(\frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_1} - \frac{b}{R_{11}} \right) + \frac{1}{AB} \frac{\partial B}{\partial \alpha} \left(\frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_1} - \frac{a}{R_{11}} \right) + \frac{n}{R_1} \\ S_2 &= \frac{1}{A} \frac{\partial}{\partial \alpha} \left(\frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_1} - \frac{a}{R_{11}} \right) - \frac{1}{AB} \frac{\partial A}{\partial \beta} \left(\frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_1} - \frac{b}{R_{11}} \right) + \frac{n}{R_1} \\ N_1 &= -\frac{1}{B} \frac{\partial n}{\partial \beta} - \frac{1}{R_1} \left(\frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_1} - \frac{b}{R_{11}} \right) - \frac{1}{R_{11}} \left(\frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_1} - \frac{a}{R_{11}} \right) \\ N_2 &= \frac{1}{A} \frac{\partial n}{\partial \alpha} - \frac{1}{R_1} \left(\frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_1} - \frac{a}{R_{11}} \right) - \frac{1}{R_{11}} \left(\frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_1} - \frac{b}{R_{11}} \right) \\ G_1 &= \frac{1}{B} \frac{\partial b}{\partial \beta} - \frac{1}{AB} \frac{\partial B}{\partial \alpha} \frac{c}{R_1} - \frac{1}{B} \frac{\partial c}{\partial \beta} - \frac{1}{AB} \frac{\partial A}{\partial \alpha} b + \frac{c}{R_{11}} - n \\ G_2 &= \frac{1}{A} \frac{\partial a}{\partial \alpha} + \frac{1}{AB} \frac{\partial A}{\partial \beta} b - \frac{c}{R_1} \quad H_2 = -\frac{1}{A} \frac{\partial b}{\partial \alpha} + \frac{1}{AB} \frac{\partial A}{\partial \beta} a - \frac{c}{R_{11}} - n \end{aligned}$$

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Здесь

$$a = a + i\xi u, \quad b = b + i\xi v, \quad c = c + i\xi w \quad (2.5)$$

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Investigation of the quasilinear invariants ...

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$n = \frac{1}{2AB} \left[\frac{\partial}{\partial \beta} (Aa) - \frac{\partial}{\partial \alpha} (Bb) \right]$ (2.6). Next, equations with various quantities are investigated. According to the results of the foregoing paragraph, it is possible to write down the Hooke equations as three linear relations without differential, which connect the complex moments $\vec{G}_1, \vec{G}_2, \vec{H}_1$ and the complex stresses $\vec{T}_1, \vec{T}_2, \vec{S}_2$ with one another.

$$\begin{aligned} G_1 &= -\frac{2h^3}{3} A_{22} \left(\frac{A_{11}}{A_{22}} \kappa_1 + \frac{A_{12}}{A_{22}} \kappa_2 + 2 \frac{A_{13}}{A_{22}} \tau \right) \\ G_2 &= -\frac{2h^3}{3} A_{22} \left(\frac{A_{11}}{A_{22}} \kappa_1 + \kappa_2 + 2 \frac{A_{12}}{A_{22}} \tau \right) \\ H_1 &= -H_2 = \frac{2h^3}{3} A_{22} \left(\frac{A_{11}}{A_{22}} \kappa_1 + \frac{A_{12}}{A_{22}} \kappa_2 + 2 \frac{A_{13}}{A_{22}} \tau \right) \end{aligned}$$

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Investigation of the quasilinear ...

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$$G_1 = \frac{ic_2}{2} \{a_{11} [(1 + \lambda_1) T_1 + (1 - \lambda_1) \bar{T}_1] + a_{22} [(1 + \lambda_2) T_2 + (1 - \lambda_2) \bar{T}_2] +$$

$$+ a_{33} [(1 + \lambda_3) S_1 + (1 - \lambda_3) \bar{S}_1]\}$$

$$G_2 = \frac{ic_2}{2} \{a_{11} [(1 + \frac{1}{\lambda_1}) T_1 + (1 - \frac{1}{\lambda_1}) \bar{T}_1] +$$

$$+ a_{12} [(1 + \lambda_4) T_2 + (1 - \lambda_4) \bar{T}_2] + a_{13} [(1 + \lambda_5) S_1 + (1 - \lambda_5) \bar{S}_1]\}$$

$$H_1 = \frac{ic_2}{4} \{a_{31} [(1 + \lambda_6) T_1 + (1 - \lambda_6) \bar{T}_1] + a_{32} [(1 + \lambda_7) T_2 + (1 - \lambda_7) \bar{T}_2] +$$

$$+ a_{33} [(1 + \lambda_8) S_1 + (1 - \lambda_8) \bar{S}_1]\}$$

где where

$$c_3 = h \sqrt{\frac{A_{11} A_{22}}{9 a_{11} a_{22}}}, \quad \lambda_1 = \frac{A_{12}}{a_{11}} \sqrt{\frac{a_{11} a_{22}}{A_{11} A_{22}}}, \quad \lambda_2 = \sqrt{\frac{A_{11} a_{22}}{A_{22} a_{11}}}$$

$$\lambda_3 = -\frac{2 A_{12}}{a_{12}} \sqrt{\frac{a_{11} a_{22}}{A_{11} A_{22}}}, \quad \lambda_4 = \frac{A_{21}}{a_{12}} \sqrt{\frac{a_{11} a_{22}}{A_{11} A_{22}}}, \quad \lambda_5 = -\frac{2 A_{22}}{a_{12}} \sqrt{\frac{a_{11} a_{22}}{A_{11} A_{22}}}$$

$$\lambda_6 = -\frac{2 A_{21}}{a_{21}} \sqrt{\frac{a_{11} a_{22}}{A_{11} A_{22}}}, \quad \lambda_7 = -\frac{2 A_{22}}{a_{22}} \sqrt{\frac{a_{11} a_{22}}{A_{11} A_{22}}}, \quad \lambda_8 = \frac{4 A_{12}}{a_{22}} \sqrt{\frac{a_{11} a_{22}}{A_{11} A_{22}}}$$

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Investigation of the quasilinear ...

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Thus, the systems (2.1), (2.4), and (3.1) combine all principal equations of the theory of thin homogeneous shells. There are 11 references: 8 Soviet-bloc and 2 non-Soviet-bloc.

SUBMITTED: March 28, 1960

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VISARION, V.; DREGICHESKU, D. [Draghicescu, D.]

Computation of rotary cement furnaces with rigidity rings.
Rev mec appl 8 no.3:481-500 '63.

VISARION, V.; DRAGHICESCU, D.

Computation of rotative clinker kilns with stiffening rings.
Studii cerc mec apl 13 no.4:865-882 '62.

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A231/A126

10 9100

AUTHORS: Visarion, V., and Stănescu, C.

TITLE: On the formal reduction of the state of over-all stress of thin elastic shells to the state of pure "quasi-invariable" moments

PERIODICAL: Studii și Cercetări de Mecanică Aplicată, no. 5, 1960, 1195-1199

TEXT: In a previous paper the same authors (Ref. 1: V. Visarion, C. Stănescu, Teoria cvasiinvariantilor analogiei statico-geometrice pentru învelitorile anizotrope, P. M. M. Moscova, sub tipar) have introduced the "quasi-invariable" concept for shells of non-isotropic material and have shown the existence of a complex quasi-invariable expression for equations of the theory of thin shells and boundary conditions. The system of equilibrium equations in forces and moments, and the equations of the distortion continuity are comprised in a system

$$\frac{\partial}{\partial \alpha} (B \tilde{M}_{\alpha}) + \frac{\partial A}{\partial \beta} \tilde{M}_{\alpha\beta} - \frac{\partial}{\partial \beta} (A \tilde{M}_{\beta\alpha}) - \frac{\partial B}{\partial \alpha} \tilde{M}_{\beta} - AB \left(\frac{\tilde{Q}_{\alpha}}{R_1} - \frac{\tilde{Q}_{\beta}}{R_{12}} \right) = 0;$$

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On the formal reduction of the state of...

$$\begin{aligned} \frac{\partial}{\partial \alpha} (B \tilde{\eta}_{\alpha\beta}) - \frac{\partial A}{\partial \beta} \tilde{\eta}_{\alpha} + \frac{\partial}{\partial \beta} (A \tilde{\eta}_{\beta}) - \frac{\partial B}{\partial \alpha} \tilde{\eta}_{\beta\alpha} - AB \left(\frac{\tilde{Q}_{\beta}}{R_1} - \frac{\tilde{Q}_{\alpha}}{R_{12}} \right) &= 0, \\ AB \left(\frac{\tilde{\eta}_{\alpha}}{R_1} + \frac{\tilde{\eta}_{\beta}}{R_2} + \frac{\tilde{\eta}_{\beta\alpha} - \tilde{\eta}_{\alpha\beta}}{R_{12}} \right) + \frac{\partial}{\partial \alpha} (B \tilde{Q}_{\alpha}) + \frac{\partial}{\partial \beta} (A \tilde{Q}_{\beta}) &= 0, \\ \frac{\partial}{\partial \alpha} (B \tilde{\eta}_{\alpha\beta}) + \frac{\partial A}{\partial \beta} \tilde{\eta}_{\alpha} - \frac{\partial}{\partial \beta} (A \tilde{\eta}_{\beta}) - \frac{\partial B}{\partial \alpha} \tilde{\eta}_{\beta\alpha} + AB \tilde{Q}_{\beta} &= 0, \\ \frac{\partial}{\partial \alpha} (B \tilde{\eta}_{\alpha}) - \frac{\partial A}{\partial \beta} \tilde{\eta}_{\alpha\beta} + \frac{\partial}{\partial \beta} (A \tilde{\eta}_{\beta\alpha}) - \frac{\partial B}{\partial \alpha} \tilde{\eta}_{\beta} - AB \tilde{Q}_{\alpha} &= 0, \end{aligned} \quad (1)$$

$$\tilde{\eta}_{\alpha\beta} + \tilde{\eta}_{\beta\alpha} = 0.$$

The supplementary quasi-invariable equations $\tilde{\eta}_{\alpha\beta} + \tilde{\eta}_{\beta\alpha} = 0$. (2) is attached to this system. Hook's law can be expressed by three non-differential quasi-invariable equations, which connect the complex forces and moments. These complementary equations are:

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On the formal reduction of the state of...

$$\begin{aligned}\bar{M}_a &= i \frac{h}{\sqrt{3(1-\mu^2)}} (\bar{M}_p - \mu \bar{M}_a), \\ \bar{M}_p &= i \frac{h}{\sqrt{3(1-\mu^2)}} (\bar{M}_a - \mu \bar{M}_p), \\ \bar{M}_{ap} &= i \frac{h}{\sqrt{3(1-\mu^2)}} (\bar{M}_{ap} + \mu \bar{M}_{ap}).\end{aligned}\quad (3)$$

The limit conditions can be expressed in a complex form. In the present article the authors show, on the basis of the above equations, that the theory of thin elastic isotropic shells applied to forces and moments can be expressed only by the quasi-invariable moments, the moments acting on a membraneless shell, the median surface of which maintains the geometry of the median surface of the shell, but provided with imaginary thickness and modified elastic characteristics. For this purpose, the authors introduce:

$$h_* = i \sqrt{\frac{h}{3(1-\mu^2)}} \quad (4),$$

h_* being the semi-thickness of the membraneless shell. Then, considering $\mu_* = -\mu$, to be the Poisson coefficient for the membraneless shell, the equations (3) obtain the form of the expressions

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$$\begin{aligned} \bar{M}_x &= -\frac{2Eh^3}{3(1-\mu^2)}(\chi_1 + \mu\chi_2), \quad \bar{M}_y = -\frac{2Eh^3}{3(1-\mu^2)}(\chi_2 + \mu\chi_1) \\ \bar{M}_{xy} &= 2Eh^3 \frac{1}{1+\mu} \tau^* \end{aligned} \quad (7)$$

These equations are identical with the equations of Hooke, which connect the moments with the bending components of the distortion. The values χ_1 , χ_2 , and τ^* , represent the components of the bending distortion of the membrane-less shell. Introducing the relations (5) into the first three equations of (1), one obtains the relations

$$\begin{aligned} -\frac{\partial}{\partial \alpha}(B\chi_2) + \frac{\partial A}{\partial \beta}\tau^* + \frac{\partial}{\partial \beta}(A\tau^*) + \frac{\partial B}{\partial \alpha}\chi_1 - AB\left(\frac{\zeta_2}{R_1} + \frac{\zeta_1}{R_{12}}\right) &= 0, \\ \frac{\partial}{\partial \alpha}(B\tau^*) + \frac{\partial A}{\partial \beta}\chi_2 - \frac{\partial}{\partial \beta}(A\chi_1) + \frac{\partial B}{\partial \alpha}\tau^* + AB\left(\frac{\zeta_1}{R_2} + \frac{\zeta_2}{R_{12}}\right) &= 0, \quad (8) \\ -AB\left(\frac{\chi_2}{R_1} + \frac{\chi_1}{R_2} + \frac{2\tau^*}{R_{12}}\right) + \frac{\partial}{\partial \alpha}(B\zeta_2) - \frac{\partial}{\partial \beta}(A\zeta_1) &= 0, \end{aligned}$$

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On the formal reduction of the state of...

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after considering the law of Hooke for complex cutting forces

$$\begin{aligned}\bar{Q}_1 &= \frac{2Eh^2}{3(1-\mu^2)} \zeta_1, \\ \bar{Q}_2 &= -\frac{2Eh^2}{3(1-\mu^2)} \zeta_2.\end{aligned}\quad (9)$$

The system (8) coincides with the continuity equations of the distortion, which connects the components of the bending distortion. For the membraneless shell, there is a Hooke's law between the complex cutting forces and the values ζ_1^* , ζ_2^* . Thus, the fourth and the fifth equations of the system (1) have to be solved, to which the equations (2), (7) and (8) will be attached. The limit conditions can be transcribed in values which are specific for the new expression, starting from the quasi-invariable limit conditions. This expression simplifies the calculation; however it is necessary to mention several calculation rules for the value of μ^* . If λ is an arbitrary complex value, then $i\mu^*\lambda = -\mu^*i\lambda$, and then $h_*\mu^*\lambda = -\mu^*h_*\lambda$, μ^* is anti-commutative by multiplying it with h_* . It also results: $\mu_* = \mu^*/\mu^* = \mu^2$. There are 3 Soviet-bloc references. X

SUBMITTED: March 12, 1960

Card 5/5

VISARION, V.

"Calculation of thin elastic coverings having small curvature and orthotropic material"

p. 1029 (Comunicarile, Vol. 7, No. 12, Dec. 1957, Bucharest, Rumania)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1,
Jan. 58.

VISARION, V. (Bukharest); STENESKU, Kr. [Stănescu, C.] (Bukharest)

Investigating quasivariants of statical geometrical analogies for
thin elastic shells. Prikl. mat. i mekh. 25 no.1:68-75 Ja-P '61.
(MIRA 14:6)

(Elastic plates and shells)

VISARION, V.; DRAGHICESCU, D.

Computing rotary kilns for clinker. Studii cerc mec apl 13
no.1:105-135 '62.

VISARION, V., STANESCU, C.

A new method for computing cylindrical envelopes of a circular section with orthotropy of material. p. 1173.

Academia Republicii Populare Romine. Institutul de Mecanica Aplicata. STUDII SI CERCETARI DE MECANICA APLICATA. Bucuresti, Rumania. Vol. 8, No. 4, 1957

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 8, Aug. 1959
Uncl.

VISARION, V.

State of stresses and moments of thin spherical surfaces. p. 535.
Academia Republicii Populare Romine. Institutul de Mecanica Aplicata.
STUDII SI CERCETARI DE MECANICA APLICATA, Bucuresti. Vol. 6, no. 3/4,
July/Dec. 1955.

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CIA-RDP86-00513R001860020018-5"

VISARICH, V.

Thin roof coverings in the form of hyperbolic paraboloids.

P. 443 (Academia Republicii Populare Romine. Institutul de Mecanica Aplicata. STUDII SI
CONSTRUCTII DE MECANICA APLICATA. Vol. 7, no. 2, Apr./June 1956, Bucuresti, Romania)

Monthly Index of East European Accessions (EEAI) IC. Vol.7, no. 2,
February 1958

VISARTON, V.

A method for the dynamic calculations of tubes and cylindrical shells.

p. 491 (Academia Republicii Populare Romine. Institutul de Mecanica Aplicata. Studii Si Cercetari De Mecanica Aplicata. Vol. 8, no. 2, 1957. Bucuresti, Romania)

Monthly Index of East European Accessions (MEAI) IC. VOL. 7, no. 2,
February 1958

DIMITROV, D.; STRATIEV, V.; PARUSHEV, P.; VISARIONOV, V.

Production of zinc sulfate in the zinc hydrometallurgy.
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DMITROV, D., inzh.; PARUSHEV, P., inzh.; VISARIONOV, V., inzh.; PARAPITEV,
Tsv., inzh.

Constructing more effectively working cooling systems for
fluidized bed kilns and their increased productivity.
Min delo 18 no.9:19-22 S '63.

1. Olovno-tsinkov zavod, Kurdzhali.

VISBARAITE, Ya. I.

"Splitting-up into triplets of the carbon atoms in the configuration
 $1s^2 2s^2 2p^3$." by Ya. I Visbaraitis (p 265)

SO: Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki, 1953
Vol 24 #3

VISCA, Aldo, dr.; QUERCI, Mario, dr.; HARKANYI, Istvan, dr.; ANASIO, Claudio, dr.

Certain problems of anesthesia in neurosurgery. *Magy.sebeszet*
13 no.5:332-340 0 '59.

1. A Torino-i Tudományegyetem Általános Sebészeti Klinikájának
(Igazgató: Achille Mario Dogliotti dr. egyet. tanár) és Anaesthesiologus
Szakorvosképesítő Iskolájának Iskolavezető: Enrico Ciocatto dr. egyet.
m. tanár) közleménye.

(NEUROSURGERY anesth & analg)

QUERCI, Mario, Dr.; VISCA, Aldo, Dr.; HARKANYI, Istvan, Dr.; AMASIO, Claudio, Dr.

General anesthesia in pediatric surgery. Magyar. sebeszet 12 no.1:
69-74 Mar 59.

1. A torinói Tudományegyetem Általános Sebészeti Klinikájának (Igaz-
gato: Dogliotti Achille Mario dr. egyetemi tanár) és Anaesthesiologus
Szakorvosképző Iskolájának (Iskolavezető: Ciocatto Enrico dr. egyet.
m. tanár) közleménye.

(PEDIATRICS, surg.
anesth., general (Hun))

(ANESTHESIA
in pediatric surg. (Hun))

QUERCI, Mario, Dr.; VISCA, Aldo, Dr.; HARKANYI, Istvan, Dr.

Peridural anesthesia in prostatectomy. *Magy. sebeszet* 12 no.2:144-149
Mar 59.

1. A Torinói Tudományegyetem Általános sebészeti Klinikájának (Igazgató:
Dogliotti Achille Mario dr. Egyetemi tanár) és Anaesthesiologus
Szakorvosképző Iskolájának (Iskolavezető: Ciocatto Enrico dr. egyetemi
m. tanár) közleménye.

(PROSTATECTOMY

peridural anesth. (Hun))

(ANESTHESIA, SPINAL

peridural in prostatectomy (Hun))

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S/058/62/000/006/064/136
A061/A101

AUTHORS: Viscakas, J., Stonkus, S.

TITLE: Growth and some physical properties of CdSe single crystals

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 11, abstract 6E89
("Uch.zap. Vil'nyussk. un-t. Matem., fiz.," 1960, v. 33, no. 9,
149 - 160, Lith.; Russian summary)

TEXT: CdSe single crystals were grown by the Frerikhs method. The most convenient way of growing the single crystals was found to be CdSe sublimation. The single crystals, grown in H₂ with a Cl₂ admixture (type A) possessed higher dark resistance and higher relative photosensitivity, than those grown in pure H₂ (type B). Dark current, photocurrent, and the index, m, of the lux-ampere characteristic were found to have maximum values within a definite temperature range. The forbidden band width, determined from the red boundary of photoconductivity, diminishes with temperature increase. In the range of 291 - 78°K it narrows down at a rate of 0.00033 - 0.00023 ev/deg. The relaxation of photoconductivity of CdSe single crystals follows a power law at room temperature. Oc-

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A061/A101

Growth and some physical properties...

asionally, two relaxation times are observed in photocurrent growth; 1 - 2 and 4 - 8 msec. The relaxation time of photoconductivity drop is 0.2 - 0.6 msec. There are 24 references. ✓

[Abstracter's note: Complete translation]

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L 29609-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AT6012819

SOURCE CODE: UR/2910/65/005/001/0109/0114

AUTHOR: Vishchakas, Yu. K.; Viscakas, J.; Kavalyauskene, G. S.; Kavaliauskiene, G.

ORG: Vilnius State University im. V. Kapsukas (Vil'nyusskiy Gosudarstvennyy universitet)

57
B+1

TITLE: Investigation of dark relaxation of the electrostatic potential in xero-graphic selenium layers

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 5, no. 1, 1965, 109-114

TOPIC TAGS: electrophotography, relaxation process, dark current, selenium

ABSTRACT: The authors study the effect of temperature on the dark potential reduction in xerographic layers. The potential relaxation process is studied in selenium from 10 to 60°C. The xerographic films were produced by vaporizing selenium in a vacuum of $5 \cdot 10^{-4}$ mm Hg on Duralumin substrates. A dynamic electrometer was used for measuring the relaxation in dark potential. An EN-1 oscillograph was used as the indicator at the output of the electrometer amplifier. The potential was measured one second after charging. It was found that dark relaxation of the potential at

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various temperatures may be described by hyperbolic curves of the type

$$V = \frac{V_0}{(1+at)^a} \quad (1)$$

where V_0 is the initial potential; V is the potential at time t ; a and α are parameters of the hyperbola which depend on the temperature and conditions under which the layer was prepared. The change in potential for freshly prepared selenium film conforms to two or, occasionally, three hyperbolas. The time for transition from the first hyperbola to the second depends on temperature. After three or four months, the potential relaxation of the layers conforms to a single hyperbola. The drop in potential is similar for both positively and negatively charged layers, with differences only in the numerical values of the parameters a and α . Values of α were found to vary from 0.05 to 0.90. The rate of dark discharge is a linear function of temperature in most cases. Experimental results showed that instantaneous relaxation time at the given potential is an exponential function of temperature and is determined by the following expression:

$$\Theta = R_{eff} \cdot C_{eff} = \Theta(V) e^{-\frac{\Delta E}{kT}} \quad (2)$$

where R_{eff} and C_{eff} are the effective resistance and capacitance of the layer respectively. T is the temperature, ΔE is the activation energy. This expression holds

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ACC NR: AT6012819

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for both positively and negatively charged layers. The activation energy differs only slightly for the various layers and the average is 0.54 ± 0.05 and 0.28 ± 0.05 eV for positively and negatively charged layers respectively. A theoretical explanation is given for the experimental results. Orig. art. has: 6 figures, 1 table, 2 formulas.

SUB CODE: 20/ SUBM DATE: 15Jun64/ ORIG REF: 002/ OTH REF: 002

Card 3/3 CC

L 29608-66 EWT(l)/EWT(m)/EWP(t)/ETI IJP(c) AT/JD
ACC NR: AT6012822 SOURCE CODE: UR/2910/65/005/001/0129/0134

AUTHOR: Vishchakas, Yu. K.; Viscakas, J.; Vaytkus, Yu. Yu.; Vaitkus, J.

47

B+/

ORG: Vilnius State University im. V. Kapuskas (Vil'nysskiy Gosudarstvennyy universitet)

TITLE: Spectral distribution of photoconductivity in polycrystalline cadmium selenide layers

SOURCE: ^vAN LitSSR. Litovskiy fizicheskiy sbornik, v. 5, no. 1, 1965, 129-134

TOPIC TAGS: cadmium selenide, photoconductivity, polycrystalline film, spectral distribution

ABSTRACT: The spectral distribution of photoconductivity parameters was measured in polycrystalline layers of cadmium selenide with a constant number of incident quanta. It was found that the photocurrent yield of the specimens is a complex function of the exposure conditions. Bias lighting gives clear reproducible results. Relaxation time is independent of incident wavelength for a constant photocurrent and the minimum relaxation time corresponds to maximum stationary photocurrent. The

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ACC NR: AT6012822

initial differential instantaneous relaxation time is independent of wavelength at high frequencies and increases at lower frequencies. The selectivity of spectral distribution is not significantly affected by an increase in light intensity. Stationary bias lighting reduces selectivity of the spectral distribution by increasing the photosensitivity in the short wave region and reducing it in the long wave region. Maxima in the photoconductivity sometimes appear when the light intensity is increased. The spectral distribution of the photocurrent yield and relaxation time may be due to additional fast recombination centers on the surface and within the layers. The maxima in photosensitivity are due to the structure of the valence band. An increase in the dark conductivity of the layers increases the absolute stationary photocurrent which may be due to filling of capture levels without hole injection. The injection of holes by stationary bias lighting reduces photocurrent since there is an increase in recombination through the electron-filled capture level. This effect is stronger in the case of volume absorption which indicates an increase in recombination speed within the layer. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 18Jun64/ ORIG REF: 006/ OTH REF: 004

Card 2/2 CC

CALINICENCO, N.; PEZLESCU, N.; VISORIAN, I.

Determining the diurnal variation of the terrestrial
magnetism of the vertical Z composition at Iasi. Studii
fiz tehn Iasi 14, no.2:363-367 83.

VISCRIAN, I.

"X-ray absorption and emission in analytical chemistry" by
H.A.Liebhafsky, H.P.Pfeiffer, E.H.Winslow, P.D.Zemany. Reviewed
by I.Viscrian. Studii fiz tehn Iasi 13 no.2:311-312 '62.

VISCARIAN, I. (Iasi)

Controlled nuclear energy. Gaz mat B 14 no.1:7-17 Ja '63.

CALINICENCO, Nicolae, prof.; VISCRIAN, I.

Modern methods in measuring the terrestrial magnetic field. Studii
fiz tehn Iasi 13 no.1:51-64 '62.

1. Membru al Comitetului de redactie, "Studii si cercetari stiintifice,
Fizica si stiinte tehnice" -Filiala Iasi- (for Calinicenco).

VISCRIAN, I.

"Methods and technics in geophysics" by S.K.Runcorn. Reviewed
by I.Viscrian. Studii fiz tehn Iasi 13 no.2:316-317 '62.

LUCA, Ion; TIBU, Margareta; POTECH, I.; VISCRIAN, I.

Radioactivity of the Cotnari soil in the Iasi region. Studii
fiz tehn Iasi 13 no.2:291-293 '62.

CALINICENCO, N.; VISCRIAN, I.; LOZNEANU, E.

Radiometric method of determination of potassium in rocks. Studii
fiz tehn Iasi 13 no.2:189-193 '62.

PROCOPIU, Stefan, acad.; VISCRIAN, Ioan

Study of the traction influence on the magnetic characteristics of electrolytic iron wire in circular and longitudinal alternating magnetic field. Studii fiz tehn Inst 14, no.2:235-306 '63.

Study on the magnetomechanical Phenomena of the nickel wire in a circular and longitudinal alternating magnetic field. Ibid.:307-340

PROCOPIU, Stefan, acad.; VISCRIAN, Ioan

Magnetizing intensities on steel and electrolytic iron threads
in a circular and longitudinal alternate field; effect of the
Barkhausen circular. Studii fiz tehn Iasi 14 no.1:13-36 '63.

VISCRIAN, Ion

"Recent research on controlled thermonuclear fusion" by C.M. Van Atta, Robert G. Mills, and Arthur H. Snell. Reviewed by Ion Viscrian. Studii fiz tehn Iasi 13 no.1:149-150 '62.

VISCRIAN, Ion, cercetator (Iasi)

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VISCRIAN, Ioan; TIBU, Margareta; PETRESCU, Gabriela

Electronic paramagnetic resonance of D.P.P.H. in a weak
magnetic field. Studii fiz tehn Iasi 14 no.2:381-391 '69.

TIEU . Margareta; LEONTE, Candiano; VISCRIAN, I.

Study of some organic scintillators in solutions. Studii fiz tehn
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VISCRIAN Ion

"Liquid scintillation counting" by Carlos G. Bell Jr., and F. Newton
Haves. Reviewed by Ion Viscrian. Studii fiz tehn Iasi 12 no.2:388-
389 '61.

VISCRIAN, Ion

"Elements of general physics" by A. Barbu. Reviewed by Ion Viscrian. Studii fiz tehn Iasi 12 no.2:386-387.

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"Controlled thermonuclear fusion research" by K. Bockasten, P. Hollin, S. I. Herlitz, L. Hégberg, N.R. Nilsson, S. Svennerstedt, and K. Vogel. Reviewed by Ion Viscrian. Studii fiz tehn Iasi 12 no.2:390 '61.

VISCRIAN, I.; TIBU, M.

A portable dosimeter for the radiations B. and Y. p. 205.

STUDII SI CERCETARI STINTIFICE. FIZICA SI STINTE TEHNICE.
Iasi, Rumania, Vol. 8, no. 2, 1957

Monthly list of European Accessions (EEAI) IC, Vol. 8, no. 8, Aug. 1959

Uncl.

VESELY, K.T.; BOUDA, J.

Examination of protein content in the gastric juice by means of
paper electrophoresis. Cas. lek. cesk. 99 no.7/8:257-263 19 7. '60..

1. Interní oddelení OUNZ Hodonín, přednosta dr. K.T. Veselý, úřední
laborator OUNZ Hodonín, prom. chemik J. Bouda.
(GASTRIC JUICE chem.)
(PROTEINS, chem.)

SOV/1-6-1-1-4/18

AUTHOR: Karandeyev, K.B., Corresponding Member Doctor of Technical Sciences; Vishenchuk, I.M., Senior Scientific Collaborator; Sheremet'yev, V.A., Senior Engineer

TITLE: An Electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines (Elektronnyy fazometr dlya izmereniya i ostsillografirovaniya ugla vybega rotora sinkhronnykh mashin)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Priborostroyeniye, 1958, Nr 1, pp 22-27 (USSR)

ABSTRACT: The paper proposes a circuit for a phase meter to measure and oscillograph with little phase angle lag, which is essentially free from the normal defects. The lag in this circuit is 0.2 m/sec, it narrows the measuring limits of the angle to 3-4 electric degrees. The semi-variable resistances of 100 k ohm in the control grid circuit of the phantastron generator is for correcting sensitivity and makes it possible to

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SOV/146-1-1-4/22

An Electric Phase Meter for Measuring and Oscillographing the Rotor
Coasting Angle of Synchronous Machines

establish nominal phase meter measuring limits. The paper contains an accurate description of the phase meter switch circuit and its functions. Then comes an analysis of the errors of this phase meter, in accordance with the nature of the effects on measuring instruments. Three forms are investigated. 1) Time displacements which occur during the transmission of reference voltage and the transmitter signal in the phase meter channels; 2) The sensitivity instability of the phase meter which depends on the steepness of the sawtooth voltage, and the transmission factor of the balance-amplifier; 3) The non-linearity of the sawtooth voltage, when using the input measuring unit with a linear scale, which can also lead to errors. The paper also notes as error sources, phase displacement of reference voltage to the power transformer; the starting time of multi-vibrators, the pulse length of multi-vibrators; the electrodynamic power between the contacts of a closed electron key and the displacement

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50V/146-1-1-4/22

An Electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines

of the zero point at the balance amplifier. Technical characteristics of the phase meter are: 3 limits for angle measurement $\pm 180^\circ$, $\pm 90^\circ$, $\pm 45^\circ$. Indicating instrument is a microammeter for ± 50 micro-amps. Fixing the angle on the oscillograph takes 0.02 secs, delay in oscillographing is practically zero. The phase meter weighs approx. 6 kg. Power consumption is not over 50 watts. The device is fed with 110 or 220 volts, at 50 cps. The phase meter measures and oscillographs the rotor coasting angle in synchronous machines within limits of ± 180 electric degrees with an accuracy of up to 0.5° plus 1%. The phase meter works harmoniously with the electromagnetic phase transmitter, which transmits the electrodynamic power, and voltage in pulse form. There are 1 circuit diagram, 6 diagrams, 1 table and 5 Soviet references.

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An Electric Phase Meter for Measuring and Oscillographing the Rotor
Coasting Angle of Synchronous Machines

SOV/146-1-1-4/22

ASSOCIATION: L'vovskiy politekhnicheskii institut (Lvov Polytechnical Institute)

Card 4/4

VISCOR, A.

A study of dermatophytes in workers of agricultural animal husbandry. Bratisl.lek.listy 35 no.5:265-273 15 Mar 55.

1. Z Kozneho oddelenia OUNZ v Martine.
(DERMATOPHYTOSIS, epidemiology,
in agricultural & animal husbandry workers)
(OCCUPATIONAL DISEASES,
dermatophytosis in agricultural & animal husbandry workers)
(AGRICULTURE,
dermatophytosis in agricultural workers)

VISCOROVA, B.

Syphilis from the pediatric point of view. Cesk.gyn. 15 no.12:
837-842 1950. (CIML 20:6)

1. Of the Children's Diseases Clinic, Slovak University, Bratislava
(Head--Docent. Ivan Hecko,M.D.), Author is Assistant to the Head of
the Clinic.

S/081/63/000/002/022/088
B166/B138

AUTHOR: Visorian, Ion

TITLE: Carbon 14 in nature and its determination

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1963, 152, abstract
2E16 (Studii si cercetări stiint. Acad. RPR Fil. Iași. Fiz.
si stiinte tehn., v. 12, no. 1, 1961, 111-120 [Rumanian])

TEXT: Methods are described for the proportional and scintillation
counting of C^{14} . Data are given on the quantity of recent C^{14} in various
plants and trees in different regions of the Earth. The half-life of
 C^{14} and the limits to dating by the C^{14} method are examined with the aid
of published data. [Abstracter's note: Complete translation.]

Card 1/1

ANTONESCU, V.; CALINICENCO, N.; NECHITA, O.; ONU, C.; RUSU, Gh. Ilie; TOMOZEI, Cl.; TIBU, M.; VESCAN, T. T., prof.; VISCRIAN, I.

Radioactivity of the mining region Rodna Veches-Valea Vinului. Studii fiz tehn Iasi 12 no.1:31-33 '61.

1. Membru al Comitetului de redactie si redactor responsabil adjunct,
"Studii si cercetari stiintifice, Fizica si stiinte tehnice" (for Vescan)

VISCRIAN, Ion

Natural carbon 14 and its detection. Studii fiz tehm Iasi 12 no.1:
111-120 '61.

CALINICENCO, N.; NICHITA, O.; VISCRIAN, I.; TIBU, Margareta; ANTONESCU, V.

Contributions to the study and measurement of the radioactivity
of certain rocks. Studii fiz tehn Iasi 10 no.1:67-72 '59 (EPAI 9:3)

1. Filiala Iasi a Academiei Republicii Populare Romine.
(Rocks) (Radioactive substances)